

## DERWENT WORLD PATENTS INDEX

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## L29 ANSWER 1 OF 8 WPIDS

## FAMILY 1

TITLE:            Hydrocarbon compsn. e.g. for heat exchanger  
                      surfaces - has antifouling additive comprising  
                      aluminium cpd. and either cpd. contg. ionisable  
                      hydrogen, thiadiazole or triazole.

DERWENT CLASS:    A97 E12 E13 H04

INVENTOR(S):      DVORACEK, L M

PATENT ASSIGNEE(S): (UNOC) UNION OIL CO CALIFORNIA

COUNTRY COUNT:    1

PATENT INFORMATION:

PATENT NO KIND DATE WEEK LA PG MAIN IPC

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 US 4810397 A 890307 (8912)\*    8

## APPLICATION DETAILS:

PATENT NO KIND            APPLICATION    DATE

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 US 4810397 A            US 87-101438    870928

PRIORITY APPLN. INFO: US 86-844462 860326; US 87-101438 870928

## BASIC ABSTRACT:

US 4810397 A UPAB: 930923

A compsn. (I) comprises (A) a hydrocarbon oil; (B) at one aluminium cpd.; and (C) at least one cpd. contg. ionisable hydrogen. The mole ratio ionisable hydrogen in (C) to aluminium in (B) is in the range 30:1 to 0.1:1.

(B) is pref. soluble in the oil; it is esp. an organic aluminium cpd., e.g. aluminium tri(s-butoxide) or aluminium isopropylate. (C) is esp. formic acid; other carboxylic acids, phenols, sulphonic acids and organic derivs. of boric and phosphoric

acids are also suitable.

USE/ADVANTAGE - The compsn. has compared with the hydrocarbon oil, a reduced tendency to foul the surfaces of hydrocarbon processing equipment at elevated temps., e.g. heat exchanger surfaces.

L29 ANSWER 2 OF 8 WPIDS

FAMILY 1

TITLE: Reducing fouling on surfaces contacting oils during processing - in refinery etc., by additive systems comprising combinations of aluminium cpds., thiadiazole cpds., triazole cpds. and acids.

DERWENT CLASS: E19 H04 M14

INVENTOR(S): DVORACEK, L M

PATENT ASSIGNEE(S): (UNOC) UNION OIL CO CALIFORNIA

COUNTRY COUNT: 1

PATENT INFORMATION:

PATENT NO KIND DATE WEEK LA PG MAIN IPC

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US 4719001 A 880112 (8804)\* 8

APPLICATION DETAILS:

PATENT NO KIND APPLICATION DATE

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US 4719001 A US 86-844462 860326

PRIORITY APPLN. INFO: US 86-844462 860326; US 87-101438 870928

BASIC ABSTRACT:

US 4719001 A UPAB: 930923

Fouling of heated surfaces contacted with a hydrocarbon oil during petrochemical or refinery processing is reduced by adding a foulant-inhibiting amt. of an additive comprising Al cpd.(s) and thiadiazole cpd.(s).

Fouling is reduced by an additive comprising Al cpd.(s) and triazole cpd.(s), the mole ratio of triazole in the triazole cpd. to Al being about 6:1 to 0.01:1; or an additive comprising Al cpd.(s) and cpd.(s) contg. ionizable H. Fouling of heated surfaces contacted with substantially anhydrous hydrocarbon oil is reduced by an additive comprising thiadiazole cpd.(s).

USE/ADVANTAGE - The methods may be applied to petroleum crude oils, syncrudes, shale oils, oils from bituminous sands and refined fractions thereof, esp. atmospheric or vacuum residue and viscous pitches; and esp. where the feedstock must pass through furnaces and heaters of cokers, visbreaking units and crude oil units. The rate of fouling is reduced e.g. by 22-68%. Heat transfer efficiency is improved and energy requirements therefore reduced.

L29 ANSWER 3 OF 8 WPIDS

TITLE: New heterocyclic urea and thiourea derivs. as ACAT inhibitors - useful for treating hypercholesterolaemia and atherosclerosis.

DERWENT CLASS: B03

INVENTOR(S): CRESWELL, M W; WHITE, A D

PATENT ASSIGNEE(S): (WARN) WARNER LAMBERT CO

COUNTRY COUNT: 1

PATENT INFORMATION:

PATENT NO KIND DATE WEEK LA PG MAIN IPC

US 5185358 A 930209 (9308)\* 13 A61K031-41

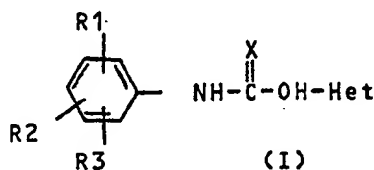
APPLICATION DETAILS:

PATENT NO KIND APPLICATION DATE

US 5185358 A US 91-719907 910624

PRIORITY APPLN. INFO: US 91-719907 910624

GRAPHIC INFORMATION:



BASIC ABSTRACT:

US 5185358 A UPAB: 931119

(Thio)urea derivs. of formula (I) and their salts are new. In (I), X is O or S; R1-R3 are H, F, Cl, Br, 1-6C alkyl, 1-6C alkoxy, COAr, CH2Ar, Ar, NR4R5 or COR6; Ar is phenyl opt. substd. by 1-3 of F, Cl, Br, I, 1-6C alkyl or 1-6C alkoxy; R4, R5 are H or 1-4C alkyl; or NR4R5 is pyrrolidino, piperidono, piperazino or 4-(1-4C alkyl) piperazino, R6 is OH, 1-6C alkoxy, OCH2Ar or NR4R5; Het is 1-R7-1,3,4-triazol-2-yl, 1-R7-1,2,4-triazol-3-yl, 1-R7-1,2,4-triazol-5-yl or 1-R8-2-R9-1,3,4-triazol-5-yl; R7 is 1-16C alkyl; R8 is H or 2-7C alkylcarbonyl; and R9 is 1-16C alkyl or 1-16C alkyl-thio, -sulphinyl or -sulphonyl. USE - (I) have acyl-CoA:cholesterol acyltransferase (ACAT) inhibiting activity and so inhibit the esterification and transport of cholesterol across the intestinal wall. (I) are useful for treating hypercholesterolaemia and atherosclerosis. Dose is 5-40mg/kg/day.

L29 ANSWER 4 OF 8 WPIDS

TITLE: Substd. 4-carbamoyl-4,5-di hydro-1,3,4-thiadiazole-

2-yl-urea derivs. - prodn. of reaction of thio  
semicarbazone cpds. with isocyanate(s).

DERWENT CLASS: B03 C02

INVENTOR(S): GRAUBAUM, H; NADOLSKI, K; SEBOTH, H

PATENT ASSIGNEE(S): (DEAK) AKAD WISSENSCHAFTEN DDR

COUNTRY COUNT: 1

PATENT INFORMATION:

PATENT NO KIND DATE WEEK LA PG MAIN IPC

DD 243930 A 870318 (8802)\* 4

APPLICATION DETAILS:

PATENT NO KIND APPLICATION DATE

DD 243930 A DD 85-283732 851204

PRIORITY APPLN. INFO: DD 85-283732 851204

BASIC ABSTRACT:

DD 243930 A UPAB: 930923

New (but unclaimed) 5,5-disubstd. 4-carbamoyl-4,5-dihydro-1,3,4-thiadiazol-2-yl-urea derivs. of formula (I) are prepd. by reaction of substd. thiosemicarbazones of formula (II) with isocyanates of formula (III) in a solvent or in the melt and isolation of the reaction product in a conventional manner. In the formulae R = H or alkyl; R1 = alkyl, opt.substd. aryl or a heterocyclic residue; R2 = H, or opt. substd. alkyl or aryl; or R1+R2 = cycloaliphatic residue; R3 = opt. substd. alkyl or aryl.

USE - The products can be used in plant protection and in the pharmaceutical sector.

L29 ANSWER 5 OF 8 WPIDS

TITLE: Defoliant contg. thiadiazolyl urea derivs. - e.g.  
N-phenyl-N'-thiadiazolyl-urea, having good activity  
even at low temps..

DERWENT CLASS: C02 P12

INVENTOR(S): GROSSMANN, K; HOFMEISTER, P; JUNG, J; SAUTER, H;  
SCHULZ, G; TUERK, W

PATENT ASSIGNEE(S): (BADI) BASF AG

COUNTRY COUNT: 16

PATENT INFORMATION:

PATENT NO KIND DATE WEEK LA PG MAIN IPC

DE 3612830 A 871022 (8743)\* 5

EP 242666 A 871028 (8743) GE

R: AT BE CH DE ES FR GB IT LI NL SE

AU 8771558 A 871022 (8749)

JP 62249903 A 871030 (8749)  
ZA 8702693 A 881228 (8907)  
US 4921525 A 900501 (9022)  
IL 82137 A 910131 (9111)  
EP 242666 B 910717 (9129)  
R: AT BE CH DE ES FR GB IT LI NL SE

APPLICATION DETAILS:

PATENT NO	KIND	APPLICATION	DATE
DE 3612830	A	DE 86-3612830	860416
EP 242666	A	EP 87-104956	870403
JP 62249903	A	JP 87-77648	870401
ZA 8702693	A	ZA 87-2693	870415
US 4921525	A	US 88-258058	881014

PRIORITY APPLN. INFO: DE 86-3612830 860416

REFERENCE PATENTS: CH 554886; FR 1598961; FR 2001083; FR 2007069; US  
3972706; US 3990879

BASIC ABSTRACT:

DE 3612830 A UPAB: 971013

New agents for the defoliation of plants contain a 1,3,4-thiadiazol  
-2-yl-urea deriv. of formula (I) where R1=H or CH3; R2=1-6C alkyl,  
3-8C cycloalkyl, 2-4C alkenyl, 3-6C alkynyl, or phenyl opt. substd.  
by 1-2 Cl or F atoms or CH3, CF3 or OCH3, gps.

USE/ADVANTAGE - (I) exert a defoliant effect with an intensity  
and speed of action superior to known (cf. DE2506690, 2619861)  
1,2,3-thiadiazol- 5-ylurea derivs. Surprisingly, (I) have defoliant  
activity at relatively low temps. and therefore have improved  
reliability in use.

L29 ANSWER 6 OF 8 WPIDS

TITLE: Substd. thiadiazolotriazine dione derivs. - useful  
as antimicrobial, antialgal, antiprotozoal  
antiviral agents and herbicides.

DERWENT CLASS: B02 C02 P34

PATENT ASSIGNEE(S): (ELIL) LILLY & CO ELI

COUNTRY COUNT: 9

PATENT INFORMATION:

PATENT NO	KIND	DATE	WEEK	LA	PG	MAIN	IPC
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US 4042372	A	770816	(7734)*
BE 860840	A	780516	(7821)
DE 2751437	A	780524	(7822)
NL 7712601	A	780523	(7823)
BR 7707675	A	780613	(7826)
JP 53065893	A	780612	(7829)

for agricultural use.

DERWENT CLASS: C02

PATENT ASSIGNEE(S): (TSUB) KUMIAI CHEM IND CO LTD

COUNTRY COUNT: 1

PATENT INFORMATION:

PATENT NO KIND DATE WEEK LA PG MAIN IPC

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JP 49008253 B 740225 (7412)\*

PRIORITY APPLN. INFO: JP 70-85576 701001

BASIC ABSTRACT:

JP74008253 B UPAB: 930831

Bactericidal and fungicidal compsn. for agricultural use contg. as active ingredient the cpd. of formula. (where R is lower alkyl, R' is phenyl opt. subst. by Cl or CH<sub>3</sub>). The active ingredient is effective esp. against bacterial leaf blight of rice plants and canker of citrus. It is also effective against blast and sheath blight of rice plants etc. The compsn. is applied by mixing with soil or irrigation water at a rate of 30-800g of active ingredient per 10 ares for controlling bacterial leaf blight and at a rate of 500-4000g for controlling canker of citrus.